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Filed

08/284,199

Aug. 2 1994

Paper No. \_\_\_\_\_

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US006489539B1

(12) **United States Patent**  
**Burrell**

(10) Patent No.: **US 6,489,539 B1**  
(45) Date of Patent: **Dec. 3, 2002**

(54) **METHOD FOR ALTERING  
CARBOHYDRATE METABOLITE LEVELS  
IN STORED POTATO TUBERS**

(75) Inventor: **Michael Meyrick Burrell, Cambridge (GB)**

(73) Assignee: **Advanced Technologies (Cambridge), Limited, Cambridge (GB)**

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 195 days.

(21) Appl. No.: **09/115,356**

(22) Filed: **Jul. 14, 1998**

**Related U.S. Application Data**

(62) Division of application No. 08/284,199, filed on Aug. 2, 1994, ~~which is hereby incorporated by reference into the present application.~~  
~~Continuation of application No. 08/284,199, filed on Aug. 2, 1994, which is hereby incorporated by reference into the present application.~~

(30) **Foreign Application Priority Data**

Dec. 21, 1989 (GB) ..... 8928937  
Jul. 6, 1990 (GB) ..... 9014988

(51) Int. Cl.<sup>7</sup> ..... C12N 15/82; C12N 15/31;  
C12P 19/04; A01H 5/00; A01H 5/06

(52) U.S. Cl. .... 800/284; 800/278; 800/287;  
800/288; 800/317.2; 47/58.1; 435/101;  
435/194

(58) Field of Search ..... 435/69.1, 70.1,  
435/100, 101, 194, 468; 800/284, 287,  
298, 317.2; 47/58.1; 88/288

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(57) **ABSTRACT**

Transgenic potato plants are prepared by a method which transforms potato plants with a chimeric gene comprising a promoter and sequence encoding a phosphofructose kinase, which regulates the amount of a metabolite in a pathway for the synthesis or degradation of starch, sucrose or reducing sugar. In stored transgenic potato tubers of the invention an increased level of phosphofructose kinase results in reduced accumulation of sugars.

2 Claims, 3 Drawing Sheets

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Henry

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